

1 ABSTRACT

2 In the described embodiment, methods and systems for processing facial
3 image data for use in animation are described. In one embodiment, a system is
4 provided that illuminates a face with illumination that is sufficient to enable the
5 simultaneous capture of both structure data, e.g. a range or depth map, and
6 reflectance properties, e.g. the diffuse reflectance of a subject's face. This
7 captured information can then be used for various facial animation operations,
8 among which are included expression recognition and expression transformation.

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25